

Title (en)
Encoder for digital data storage

Title (de)
Kodierer für digitale Datenspeicherung

Title (fr)
Codeur pour mémoire de données numériques

Publication
EP 1256951 A1 20021113 (EN)

Application
EP 02018020 A 19970207

Priority

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- US 59914696 A 19960209
- US 59914996 A 19960209

Abstract (en)
A variable rate bit inserter is provided which efficiently encodes data prior to writing a magnetic storage medium. In a preferred embodiment, the bit insertion technique monitors the phase and amplitude content of the data stream and inserts appropriate bit patterns to ensure that phase and amplitude lock are maintained on the data stream for reading and decoding purposes. Preferably, the number of bit insertions made on a given randomized block of data is monitored to determine if the number of bit insertions falls within the tolerable limits for storing the data. If the number of bit insertions is not tolerable, the pseudo-random code used to randomize the data stream is reconfigured. <IMAGE>

IPC 1-7
G11B 20/10; **G11B 20/14**

IPC 8 full level
G11B 20/10 (2006.01); **G11B 20/14** (2006.01); **G11B 20/18** (2006.01); **H03M 13/15** (2006.01); **H03M 13/29** (2006.01); **H03M 13/41** (2006.01); **H03M 13/47** (2006.01)

CPC (source: EP)
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Citation (search report)

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- [YA] EP 0310057 A2 19890405 - NEC CORP [JP]
- [A] EP 0593173 A2 19940420 - MATSUSHITA ELECTRIC IND CO LTD [JP]
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- [A] PATENT ABSTRACTS OF JAPAN vol. 95, no. 7 31 August 1995 (1995-08-31)
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Citation (examination)
EP 0597443 A1 19940518 - SONY CORP [JP]

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WO 9729486 A2 19970814; **WO 9729486 A3 19971023**; AU 1955097 A 19970828; AU 733663 B2 20010517; CA 2246423 A1 19970814; CA 2246423 C 20040803; CN 1135549 C 20040121; CN 1215495 A 19990428; EP 0879464 A2 19981125; EP 1256951 A1 20021113; HK 1019654 A1 20000218; JP 2001518224 A 20011009; JP 3935942 B2 20070627; RU 98116742 A 20000627

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